

**BACHELOR OF ARTS IN EDUCATION  
MATHEMATICS EDUCATION**

**GENERAL EDUCATION** Courses that are **required** are in bold type.

REQUIRED HOURS .....48-49

Communication .....8

- ENGL 1113 English Composition I**
- ENGL 1213 English Composition II**
- COMM 1312 Basic Speech**

Mathematics .....3

- MATH 1143 Math Concepts
- MATH 1513 College Algebra
- OR a higher numbered math course**

Computer Application/Technology .....2

- COMSC 1022 Computers and Information Access
- TECH 1122 Technology & Society

Economics .....3

- ECONO 1113 Contemporary Economics**

Health and Physical Education .....3

- HPE R 1133 Wellness Concepts and Exercise Applications (includes 1 hour lab)**

Natural Sciences .....8

- BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts and Humanities .....6

- ART 1222 Art Survey
- LIT 2412 Introduction to Literature**
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History and Government .....6

- HIST 1063 U.S. History**
- POLSC 1103 American Government and Politics**

International and Cultural Studies .....6-7

- HIST 1033 World History**
- GEOG 1103 World Cultural Geography**
- POLSC 1153 World Relations and Politics
- Foreign Language (4 hr/ includes 3 hr class & 2 hr lab)

Behavioral/Social Science .....3

- PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

Required Courses .....26-27

- MATH 1613 College Algebra AND MATH 1613 College Trigonometry

**OR MATH 1715 College Algebra & Trigonometry**

- MATH 1834 Calculus I
- MATH 2834 Calculus II
- MATH 3653 Linear Algebra
- MATH 3713 College Geometry
- MATH 3834 Calculus III
- MATH 4653 Modern Algebra

Electives in Math ..... 6

(3000-4000 level courses, MATH 3673 Elementary Number Theory is recommended.)

**MATH 4933 may NOT count as MATH elective.**

Computer Application/Computer Science..... 3

(Any scientific programming language **OR** MATH 3533 Tech and Programming in Mathematics)

Statistics .....3

- MATH 3413 Statistical Methods I
- OR MATH 3433 Statistics I**

Professional Education Requirements ..... 36

Certificate/Foundations Courses

- EDUC 2113 Foundations of Education
- SPCED 3132 Exceptional Children
- EDPSY 3433 Adolescent Psychology

**Foreign Language Proficiency (Required)**

Pre-Professional Semester

- LIBED 3423 Media & Technology
- EDPSY 3653 Educational Psychology (Sec)
- SECED 4813 Educational Tests & Meas (Sec)
- SECED 4823 Principles of Teaching Secondary
- MATH 4933 Teaching Secondary Math

Professional Semester

- EDUC 3321 Multicultural/Special Populations
- EDUC 4021 Critical Issues in Education
- EDUC 4041 Classroom Management
- SECED 4865 Student Teaching in the Sec School
- SECED 4965 Student Teaching in the Sec School

Electives to bring total to..... 124

**REGULATIONS PERTAINING TO GRADUATION**

Minimum credit hours for graduation ..... 124

Minimum credit hours in the liberal arts & sciences..... 80

Minimum credit hours (3000/4000 courses)

in major completed at SWOSU ..... 8

Minimum credit hours at SWOSU (including last 8) ..... 30

Minimum Grade Point Average in all coursework 2.50

## MATHEMATICS EDUCATION (CODE 716)

### Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient <sup>1</sup> .....1	1213 English Comp II.....3	2834 Calculus II..... 4	3834 Calculus III.....4
1113 English Comp I.....3	1834 Calculus I .....4	Required Math** ..... 3	3653 Linear Algebra .....3
1513 College Algebra.....3	Gen Educ Crses .....10	2113 Found in Education . 3	Gen Educ Crses .....9
1613 College Trigonometry or 1715 Col Alg/ Trig* 3-5 Gen Educ Crses.....6		Gen Educ Crses..... 7	
		English Proficiency Exam <sup>2</sup>	
Total:..... 16-18	Total: ..... 17	Total:..... 17	Total: .....16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
4653 Modern Algebra .....3	2112 Exceptional Child ...2	Pre-Professional Semester	Professional Semester
Computer Prog*** .....3	3433 Adolescent Psych....3	3423 Media & Tech..... 3	3321 Multi-Cultrl/Spec Pop....1
Math Elective .....3	3713 College Geometry...3	3653 Educ Psychology ..... 3	4021 Critical Issues in Ed .....1
(3000-4000 level)	Math Elective.....3	4813 Educ Tests & Meas ... 3	4041 Classroom Mgmt .....1
Gen Educ Crses.....8	(3000-4000 level)	4823 Princ of Tech Sec..... 3	4865 Student Teach Sec .....5
	Gen Educ Crses ..... 4	4933 Teach Sec Math ..... 3	4865 Student Teach Sec .....5
Total:.....17	Total: .....15	Total:..... 15	Total: .....13

\*If a student enrolls in MATH 1715 during the first semester, then 1 hour free elective will be required.

\*\*MATH 3413 Statistical Methods I or Math 3433 Statistics I

\*\*\*Any scientific programming language OR MATH 3533 Technology and Programming in Mathematics

<sup>1</sup>First-time entering freshmen should take 1001 Freshman Orientation

<sup>2</sup> If applicable. See English Proficiency Program under the General Academic Information Section.